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PATENT

Application # 10/666,227

Attorney Docket # 2002P15657US01 (1009-040)

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for configuring HMI user screen navigation comprising the activities of:
 - providing an HMI screen navigation editor to a user;
 - via the HMI screen navigation editor, enabling the user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;
 - responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and another node, automatically adjusting a position of said parent node; and
 - rendering the collection to the user.
2. (Original) The method of claim 1, further comprising:
 - receiving from the user a specification of an HMI root screen node.
3. (Original) The method of claim 1, further comprising:
 - receiving from the user a specification of an HMI child screen node, the HMI child screen node a descendent of an HMI root screen node.
4. (Original) The method of claim 1, further comprising:
 - receiving from the user, a specification of a relationship between two of the plurality of HMI screen nodes.
5. (Original) The method of claim 1, further comprising:
 - receiving from the user a specification of an organization of the collection.
6. (Original) The method of claim 1, further comprising:
 - receiving from the user a specification of a hierarchy of the collection.

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7. (Currently Amended) The method of claim 1, further comprising:
automatically determining an arrangement of the collection.
8. (Original) The method of claim 1, further comprising:
receiving from the user a specification of a size the plurality of HMI screen nodes.
9. (Original) The method of claim 1, further comprising:
zooming a rendition of the plurality of HMI screen nodes.
10. (Original) The method of claim 1, further comprising:
panning a rendition of the plurality of HMI screen nodes.
11. (Original) The method of claim 1, further comprising:
collapsing a rendition of the plurality of HMI screen nodes.
12. (Original) The method of claim 1, further comprising:
expanding a rendition of the plurality of HMI screen nodes.
13. (Original) The method of claim 1, further comprising:
rotating a rendition of the plurality of HMI screen nodes.
14. (Original) The method of claim 1, further comprising:
rendering a portion of a plurality of HMI screen nodes.
15. (Original) The method of claim 1, further comprising:
enabling the user to revise the collection.
16. (Original) The method of claim 1, further comprising:
enabling the user to revise at least one of the plurality of HMI screen nodes.

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17. (Original) The method of claim 1, further comprising:
receiving a user specification of an attribute of an HMI screen node.
18. (Original) The method of claim 1, further comprising:
receiving a user specification of an attribute of the collection.
19. (Original) The method of claim 1, further comprising:
receiving from a user a specification of a link between two HMI screen nodes.
20. (Original) The method of claim 1, further comprising:
receiving from a user a specification of a link from a first HMI screen node to a second HMI screen node, the second HMI screen node non-familial to the first HMI screen node.
21. (Original) The method of claim 1, further comprising:
rendering a link between two HMI screen nodes;
22. (Original) The method of claim 1, further comprising:
rendering a link from a first HMI screen node to a second HMI screen node, the second HMI screen node non-familial to the first HMI screen node.
23. (Original) The method of claim 1, further comprising:
receiving from a user a specification of a navigation control comprising at least one HMI screen link.
24. (Original) The method of claim 1, further comprising:
rendering a navigation control comprising at least one HMI screen link.
25. (Original) The method of claim 1, further comprising:

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receiving from a user a specification of a navigation control comprising at least one button.

26. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one button.

27. (Original) The method of claim 1, further comprising:

receiving from a user a specification of a navigation control comprising at least one button, the at least one button comprising an HMI screen link.

28. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one button, the at least one button comprising an HMI screen link.

29. (Original) The method of claim 1, further comprising:

receiving from a user a specification of a navigation control comprising at least one button, the at least one button comprising an HMI screen link, the at least one button activatable via a user-specified soft key.

30. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one button, the at least one button comprising an HMI screen link, the at least one button activatable via a user-specified soft key.

31. (Original) The method of claim 1, further comprising:

receiving from a user a specification of a navigation control comprising at least one element activatable via a user-specified soft key.

32. (Original) The method of claim 1, further comprising:

rendering a navigation control comprising at least one element activatable via a user-

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specified soft key.

33. (Currently Amended) A machine-readable medium containing instructions for activities comprising:

providing an HMI screen navigation editor to a user;

via the HMI screen navigation editor, enabling the user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;

responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and another node, automatically adjusting a position of said parent node; and

rendering the collection to the user.

34. (Currently Amended) A device for providing a representation of user screens for an HMI comprising:

an HMI screen navigation editor operatively adapted to:

enable a user to create a collection comprising a linked hierarchically organized plurality of HMI screen nodes;

responsive to a detected collision between a parent node of said linked hierarchically organized plurality of HMI screen nodes and another node, automatically adjust a position of said parent node; and

render the collection to the user.